

## CHECKLIST ENVIRONMENTAL ASSESSMENT

**Project Name:** Lease Improvement / Livestock water development, Lease #8658

**Proposed Implementation Date:** Fall 2011/Spring 2012

**Proponents:** C & A Farms Inc., PO Box 371, Chester, MT 59522

**Location:** Lease #8658, ALL, Section 36, T34N, R4E,

**County:** Liberty

**Trust:** Common Schools

### I. TYPE AND PURPOSE OF ACTION

C & A Farms Inc., lessee of state lease #8658 has requested to place a livestock water line and a stock water tank on and across Section 36, T34N, R4E. This will allow them to connect to a private water line located on deeded land in Section 1, T33N, R4E. The water line will be 1.5" HDPE pipe placed a depth of 6' for a distance of approximately 2,746.00' on state land. A detailed map showing the location for this project lay out is included within this assessment. The primary objective is to provide reliable stock water to deeded and state pasture in order to allow for better livestock distribution.

### II. PROJECT DEVELOPMENT

#### 1. PUBLIC INVOLVEMENT, AGENCIES, GROUPS OR INDIVIDUALS CONTACTED:

*Provide a brief chronology of the scoping and ongoing involvement for this project.*

C & A Farms Inc.-Proponent and Surface Lessee, Lease #8658  
DNRC-Surface Owner  
NRCS-EQIP-Proponent

#### 2. OTHER GOVERNMENTAL AGENCIES WITH JURISDICTION, LIST OF PERMITS NEEDED:

There are no other agencies with jurisdiction on this project.

#### 3. ALTERNATIVES CONSIDERED:

Alternative A (No Action) – Deny the proponents permission to place the stock water line and the stock water tank.

Alternative B (the Proposed action) – Grant the proponents permission to place the stock water line and the stock water tank.

### III. IMPACTS ON THE PHYSICAL ENVIRONMENT

- *RESOURCES potentially impacted are listed on the form, followed by common issues that would be considered.*
- *Explain POTENTIAL IMPACTS AND MITIGATIONS following each resource heading.*
- *Enter "NONE" if no impacts are identified or the resource is not present.*

#### 4. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE:

*Consider the presence of fragile, compactable or unstable soils. Identify unusual geologic features. Specify any special reclamation considerations. Identify any cumulative impacts to soils.*

The soils are silty in texture and consist of gently rolling hills topography. There are a few steep hills in the proposed project area, but any concerns over the steep hills will be mitigated as the water line will be installed in order to avoid the steep slopes. Equipment will cause localized areas of soil compaction and will disturb the soil where the water line is being placed. Reclamation requirements are to compact and level the plow scar created in the installation of the water line. Then seed the impacted area with the existing grass types and seeding rates that are listed in item 7 of this assessment. Cumulative impacts on soil resources are not expected and any difficulties will be further mitigated by the use of a static plow to place the water line which will result in limited soil disturbance. In addition, the disturbed areas will be reclaimed and reseeded by the proponents.

#### 5. WATER QUALITY, QUANTITY AND DISTRIBUTION:

*Identify important surface or groundwater resources. Consider the potential for violation of ambient water quality standards, drinking water maximum contaminant levels, or degradation of water quality. Identify cumulative effects to water resources.*

There are no ephemeral drainages present on this tract. There are no documented and/or recorded water associated with the proposed water line installation project. Other water quality and/or quantity issues will not be impacted by the proposed action. The water to feed the project is located on private land owned by the proponent. The proposed action will improve overall water reliability and quantity for the proponent on the adjacent state and deeded pastures.

#### 6. AIR QUALITY:

*What pollutants or particulate would be produced? Identify air quality regulations or zones (e.g. Class I air shed) the project would influence. Identify cumulative effects to air quality.*

The proposed action will not impact the air quality.

#### 7. VEGETATION COVER, QUANTITY AND QUALITY:

*What changes would the action cause to vegetative communities? Consider rare plants or cover types that would be affected. Identify cumulative effects to vegetation.*

Vegetation will be minimally impacted as approximately 2,746.00' of 1.5" HDPE pipe will be placed 6' deep. The pipe will be installed by the utilization of a static plow. Noxious and annual weeds within the proposed construction areas are a concern, but this concern will be mitigated as the proponents are responsible for controlling weeds within the construction areas. Cumulative impacts on the vegetative resources are not expected as the proposed construction areas will be reclaimed and reseeded. The reseeding mixture will consist of a grass seed mixture of 35% Western Wheatgrass, 35% Slender Wheatgrass, 15% Blue Bunch Wheatgrass, 10% Green Needle grass, and 5% Lewis Blue Flax. If drilled the rate will be 8#/acre and if broadcast the rate will be doubled.

A review of Natural Heritage data through the NRIS was conducted and there were no plant species of concern noted or potential species of concern noted on the NRIS survey.

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**8. TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS:**

*Consider substantial habitat values and use of the area by wildlife, birds or fish. Identify cumulative effects to fish and wildlife.*

The area is not considered critical wildlife habitat. However, this tract provides habitat for a variety of big game species (mule deer, whitetail deer, pronghorn antelope), predators (coyote, fox, badger), upland game birds (sharp tail grouse, Hungarian partridge), other non-game mammals, raptors and various songbirds. The proposal does not include any land use change which would yield changes to the wildlife habitat. The proposed action will not impact wildlife forage, cover, or traveling corridors. Nor will this action change the juxtaposition of wildlife forage, water, or hiding and thermal cover. Wildlife usage is expected to return to "normal" (pre-action usage) following the completion of the project. The proposed livestock water project will also provide a reliable water source for wildlife.

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**9. UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES:**

*Consider any federally listed threatened or endangered species or habitat identified in the project area. Determine effects to wetlands. Consider Sensitive Species or Species of special concern. Identify cumulative effects to these species and their habitat.*

The proposed livestock water pipeline does not include any activities which would alter any habitat, so not effects are expected in either alternative. At this time, no known unique, endangered, fragile or limited environmental resources have been identified within the proposed project area.

A review of Natural Heritage data through the NRIS was conducted for T34N, R4E. There were zero species of concern and zero potential species of concern noted on the NRIS survey.

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**10. HISTORICAL AND ARCHAEOLOGICAL SITES:**

*Identify and determine effects to historical, archaeological or paleontological resources.*

The water line installation route was surveyed and no cultural resource items were located. In addition, the site was further reviewed by the NRCS's archaeologist prior to the installation of the water line. NRCS has completed a negative findings report and state that no cultural resources are present in the project area.

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**11. AESTHETICS:**

*Determine if the project is located on a prominent topographic feature, or may be visible from populated or scenic areas. What level of noise, light or visual change would be produced? Identify cumulative effects to aesthetics.*

The livestock water line will be buried so there will be no aesthetic impacts.

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**12. DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR OR ENERGY:**

*Determine the amount of limited resources the project would require. Identify other activities nearby that the project would affect. Identify cumulative effects to environmental resources.*

The demand on environmental resources such as land, water, air, or energy will not be affected by the proposed action. The proposed action will not consume resources that are limited in the area. There are no other projects in the area that will affect the proposed project.

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**13. OTHER ENVIRONMENTAL DOCUMENTS PERTINENT TO THE AREA:**

*List other studies, plans or projects on this tract. Determine cumulative impacts likely to occur as a result of current private, state or federal actions in the analysis area, and from future proposed state actions in the analysis area that are under MEPA review (scoped) or permitting review by any state agency.*

There are no other projects or plans being considered on the tract listed on this EA.

#### IV. IMPACTS ON THE HUMAN POPULATION

- *RESOURCES* potentially impacted are listed on the form, followed by common issues that would be considered.
- Explain **POTENTIAL IMPACTS AND MITIGATIONS** following each resource heading.
- Enter "NONE" if no impacts are identified or the resource is not present.

##### 14. HUMAN HEALTH AND SAFETY:

*Identify any health and safety risks posed by the project.*

The proposed project will not change human safety in the area.

##### 15. INDUSTRIAL, COMMERCIAL AND AGRICULTURE ACTIVITIES AND PRODUCTION:

*Identify how the project would add to or alter these activities.*

The proposed livestock water development will improve livestock distribution and generally improve the proponent's ranching opportunities.

##### 16. QUANTITY AND DISTRIBUTION OF EMPLOYMENT:

*Estimate the number of jobs the project would create, move or eliminate. Identify cumulative effects to the employment market.*

The proposed action will not significantly affect long-term employment in the surrounding communities.

##### 17. LOCAL AND STATE TAX BASE AND TAX REVENUES:

*Estimate tax revenue the project would create or eliminate. Identify cumulative effects to taxes and revenue.*

The proposed action will not affect tax revenue.

##### 18. DEMAND FOR GOVERNMENT SERVICES:

*Estimate increases in traffic and changes to traffic patterns. What changes would be needed to fire protection, police, schools, etc.? Identify cumulative effects of this and other projects on government services*

This project is of a small scale and being funded by NRCS-EQIP. There will be no excessive stress placed on the existing infrastructure of the area.

##### 19. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS:

*List State, County, City, USFS, BLM, Tribal, and other zoning or management plans, and identify how they would affect this project.*

The proposed action is in compliance with State and County laws. No other management plans are in effect for the area.

##### 20. ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES:

*Identify any wilderness or recreational areas nearby or access routes through this tract. Determine the effects of the project on recreational potential within the tract. Identify cumulative effects to recreational and wilderness activities.*

This proposed project area is accessible by a two-track trail through deeded land and generally has low recreational value. The tract is not legally accessible and the proposed action is not expected to impact general recreational and wilderness activities on this state tract.

##### 21. DENSITY AND DISTRIBUTION OF POPULATION AND HOUSING:

*Estimate population changes and additional housing the project would require. Identify cumulative effects to population and housing*

The proposal does not include any changes to housing or developments.

No direct or cumulative effects to population or housing are anticipated.

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**22. SOCIAL STRUCTURES AND MORES:**

*Identify potential disruption of native or traditional lifestyles or communities.*

There are no native, unique or traditional lifestyles or communities in the vicinity that would be impacted by the proposal.

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**23. CULTURAL UNIQUENESS AND DIVERSITY:**

*How would the action affect any unique quality of the area?*

The proposed action will not impact the cultural uniqueness or diversity of the area.

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**24. OTHER APPROPRIATE SOCIAL AND ECONOMIC CIRCUMSTANCES:**

*Estimate the return to the trust. Include appropriate economic analysis. Identify potential future uses for the analysis area other than existing management. Identify cumulative economic and social effects likely to occur as a result of the proposed action.*

Cumulative impacts are not likely as the area is only used for livestock grazing and the buried livestock water pipeline will not affect the long-term viability of grazing on the tract. The addition of the livestock water tank will provide a reliable source of water to the pasture which will positively impact livestock distribution. This project is authorized under the improvement request form.

<b>EA Checklist Prepared By:</b>	<b>Name:</b> Tony Nickol	<b>Date:</b> November 16, 2011
	<b>Title:</b> Land Use Specialist, Conrad Unit, Central Land Office	

## V. FINDINGS

### 25. ALTERNATIVE SELECTED:

Alternative B (the Proposed action) – Grant the proponents permission to place the stock water line and stock water tank on state land.

### 26. SIGNIFICANCE OF POTENTIAL IMPACTS:

This livestock water improvement will improve livestock distribution and generally allow for better management of the state lease. No archaeological sites are present within the project area. Overall, no negative environmental impacts are expected.

### 27. NEED FOR FURTHER ENVIRONMENTAL ANALYSIS:

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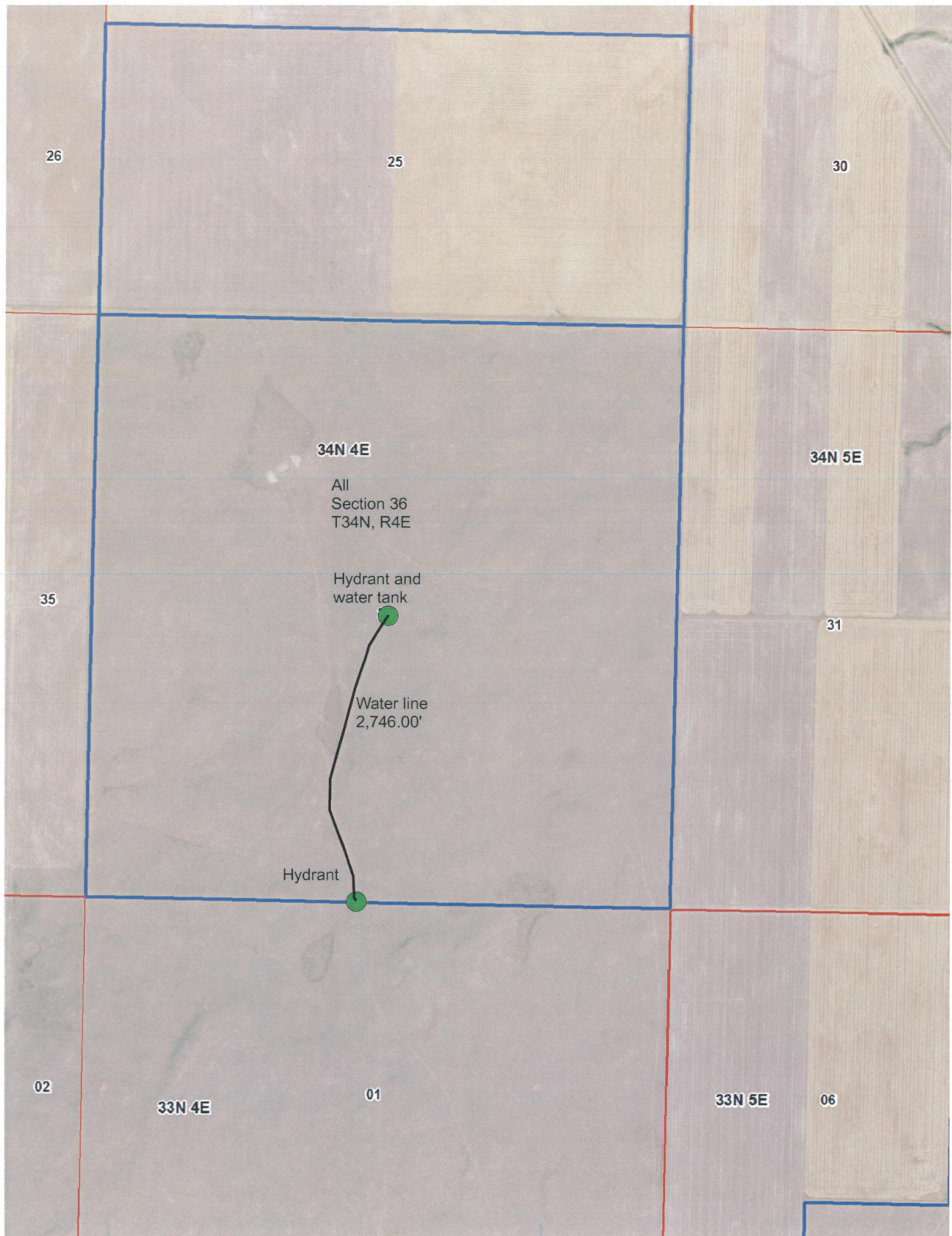
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More Detailed EA

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No Further Analysis

<b>EA Checklist Approved By:</b>	<b>Name:</b> Erik Eneboe
	<b>Title:</b> Conrad Unit Manger, CLO, DNRC
<b>Signature:</b>  <b>Date:</b> November 16, 2011	





Customer(s): C & A FARMS INC

Field Office:  
Agency: NRI  
Assisted By:

